

Title (en)  
ORGANIC ELECTROLUMINESCENT MATERIALS AND DEVICES

Title (de)  
ORGANISCHE ELEKTROLUMINESZENTE MATERIALIEN UND VORRICHTUNGEN

Title (fr)  
MATÉRIAUX ET DISPOSITIFS ÉLECTROLUMINESCENTS ORGANIQUES

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Application  
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- US 202217687895 A 20220307

Abstract (en)

An organometallic compound including a first ligand L<sub>A</sub> selected from is provided. In ligand L<sub>A</sub>, each of Y<sup>1</sup> to Y<sup>10</sup> is carbon or nitrogen; moiety B is a monocyclic or polycyclic fused ring structure comprising 5-membered and/or 6-membered rings; any two R<sub>A</sub> and R<sub>B</sub> can be fused or joined to form a ring; X is selected from O, S, Se, or NR; each R<sub>A</sub> and R<sub>B</sub> is independently hydrogen or a General Substituent; at least one R, R<sub>A</sub>, or R<sub>B</sub> is deuterium or a linking group between L<sub>A</sub> and another ligand that includes a deuterium substituted aromatic ring; and L<sub>A</sub> is coordinated to a metal M, selected from Os, Pd, Pt, Ir, Cu, Ag, or Au; and the compound is capable of emitting light with a peak maximum wavelength ( $\lambda_{\text{max}}$ )  $\geq 700$  nm at room temperature.

IPC 8 full level  
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